

Monday, August 29, 2016 2:58:29 PM

150672

Item ID: 646.4001

Accept

N900040100

Setup Start

NS1

Revision ID:

Item Name: AS350 Cable Cutter System

Stop

NS2

Start Date: 8/29/2016 **Start Qty:** 1.00

1

Cust Item ID:

Required Date: 9/6/2016 **Req'd Qty:** 1.00

1

Customer:

Reference:

Approvals: Process Plan: 21 Date: AUG 30 2016

Tooling:**Date:**

Run Start

NR1

QC: _____

Date:

SPC (Y/N):

Date:

Stop

NR2

[illegible]

DQA: _____ Date: _____



WORK ORDER NON-CONFORMANCE / UPDATE

QA Closed: _____ Date: _____

Work Order update only ☐

Work Order: _____ Part No. _____ NCR No. _____		DISPOSITION Rework ☐ Scrap ☐ Use-as-is ☐ Suspected Unapproved ☐		AGAINST DEPARTMENT/PROCESS <table style="width:100%; border: none;"> <tr> <td style="border: none;">Skid-tube ☐</td> <td style="border: none;">Cross tube ☐</td> <td style="border: none;">Water Jet ☐</td> <td style="border: none;">Engineering ☐</td> </tr> <tr> <td style="border: none;">Machining ☐</td> <td style="border: none;">Small Fab ☐</td> <td style="border: none;">Prod. Eng. Coord. ☐</td> <td style="border: none;">Quality ☐</td> </tr> <tr> <td style="border: none;">Thermoforming ☐</td> <td style="border: none;">Finishing ☐</td> <td style="border: none;">Rec/Store/Packaging ☐</td> <td style="border: none;">Other ☐</td> </tr> <tr> <td style="border: none;">Large Fab ☐</td> <td style="border: none;">Composite ☐</td> <td style="border: none;">Supplier ☐</td> <td></td> </tr> </table>						Skid-tube ☐	Cross tube ☐	Water Jet ☐	Engineering ☐	Machining ☐	Small Fab ☐	Prod. Eng. Coord. ☐	Quality ☐	Thermoforming ☐	Finishing ☐	Rec/Store/Packaging ☐	Other ☐	Large Fab ☐	Composite ☐	Supplier ☐	
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Page 2

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Approvals:

Process Plan: _____

Date: _____

Tooling: _____

Date: _____

Run Start

NR1

QC: _____

Date: _____

SPC (Y/N): _____

Date: _____

Stop

NR2Sequence ID/
Work Center IDOperation
DescriptionSet Up/
Run Hours

Tool ID

Tool #

Plan
CodeAccept
QtyReject
QtyReject
NumberInsp.
Stamp

130

0.00

130

Packaging

Packaging

Memo

0.00

Packaging

Identify and pack for shipping as per PPP 646.4001
Location: _____DAS
28
9-89DAS
27
9-89

OCT 11 2016

140

0.00

140

QC21- Final Inspection - Work Order Release

QC

Memo

0.02

Quality Control

DAS
21
9-89

OCT 11 2016

DAS
21
9-89

OCT 11 2016

DQA: _____ Date: _____



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Picklist Print

Monday, August 29, 2016 2:58:26 PM

Page 1

Work Order ID: 150672

150672

Parent Item: 646.4001

646 4001

Parent Item Name: AS350 Cable Cutter System

Start Date: 8/29/2016

Required Date: 9/6/2016

Start Qty: 1.00

Required Qty: 1.00

Comments: IPP REV:A 12.10.23 NEW ISSUE DD VERF:JLM
IPP REV:B 15.01.08 AS PER DWG REV.B DD VERF:JLM IPP
REV:C 16.01.07 AS PER DWG REV.C DD VERF:JLM

Component Item ID/ Item Name	Replacement Item ID	Mfg/ Purch	Bin Item	Primary Location	Last Location	Route Seq ID	Unit of Measure	Qty on Hand	Qty per Kit	Total Qty	Qty Issued	Date Issued	Status
---------------------------------	------------------------	---------------	-------------	---------------------	------------------	-----------------	--------------------	----------------	-------------	--------------	---------------	----------------	--------

600.0129 *600 0129* VHB TAPE 75935A651		Purchased	No			100	f	88.0000	8	8			
DAS 28 9-89 DAS 27 9-89 OCT 04 2016													
Location CCK095 m127920 Loc Qty 88 88 Loc Code 													

600.0990 *600 0990* Magnabond 6398 Part A Size 112 ml		Purchased	No			100	Each	23.0000	1	1			
DAS 28 9-89 DAS 27 9-89 OCT 04 2016													
Location CA2 M135213 PKG M134167 M134249 Loc Qty 11 11 12 1 11 Loc Code 													

600.0991 *600 0991* Magnabond 6398 Part B Size 112 ml		Purchased	No			100	Each	22.0000	1	1			
DAS 28 9-89 DAS 27 9-89 OCT 04 2016													
Location CA2 m135213 PKG m134167 m134249 Loc Qty 11 11 11 1 10 Loc Code 													

DQA: _____ Date: _____



WORK ORDER NON-CONFORMANCE / UPDATE

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Parent Item: 646.4001

646 4001

Parent Item Name: AS350 Cable Cutter System

Start Date: 8/29/2016

Required Date: 9/6/2016

Start Qty: 1.00

Required Qty: 1.00

600.1012 Purchased No 100 Each 12.0000

600 1012

Sealant PR1425B2 (#654 sem)

****** 1 1

135530

OCT 04 2016

DAS
6
27
9-89

Location

Loc Qty

Loc Code

cck017

12

m135135

4

m135407

8

600.1013 Purchased No 100 Each 735.0000

600 1013

021200-3M TAPE PRIMER 94 PRIMER 24216

****** 5 5

OCT 04 2016

DAS
6
27
9-89

Location

Loc Qty

Loc Code

CCK095

735

m131145

735

6/15/2016

646.2910 Manufactured No 100 Each 4.0000

646 2910

Deflector

****** 1 1

149303

OCT 11 2016

DAS
27
9-89

Location

Loc Qty

Loc Code

CCK050

4

140993

4

646.3001 Manufactured No 100 Each 1.0000

646 3001

Lower Cutter Assembly

****** 1 1

148591

OCT 11 2016

DAS
27
9-89

Location

Loc Qty

Loc Code

cck018

1

142639

1

DQA: _____ Date: _____



WORK ORDER NON-CONFORMANCE / UPDATE

QA Closed: _____ Date: _____

Work Order update only ☐

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Misidentified ☐	☐	Past Due ☐																							

Picklist Print

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Page 3

Work Order ID: 150672

150672

Parent Item: 646.4001

646 4001

Parent Item Name: AS350 Cable Cutter System

Start Date: 8/29/2016

Required Date: 9/6/2016

Start Qty: 1.00

Required Qty: 1.00

646.3110
646 3110
Channel

Manufactured No

100 Each

16.0000

1 1

**

OCT 04 2016
OCT 11 2016

DAS
627
9-89

Location

Loc Qty

Loc Code

cck020

16

141015

16

646.3210
646 3210
Support

Manufactured No

100 Each

11.0000

1 1

**

OCT 04 2016

DAS
27
9-89

Location

Loc Qty

Loc Code

cck020

11

141064

1

142469

10

646.3301
646 3301
Upper Cutter Assy

Manufactured No

100 Each

5.0000

1 1

**

120637

OCT 04 2016

DAS
627
9-89

Location

Loc Qty

Loc Code

cck018

5

148268

5

646.3510
646 3510
Strut

Manufactured No

100 Each

18.0000

1 1

**

OCT 04 2016

DAS
627
9-89

Location

Loc Qty

Loc Code

cck104

7

140979

7

CCK108A

11

140979

11

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Page 3

DQA: _____ Date: _____



WORK ORDER NON-CONFORMANCE / UPDATE

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OTHER :																					

Picklist Print

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Page 4

Work Order ID: 150672
 Parent Item: 646.4001
 Parent Item Name: AS350 Cable Cutter System

150672
646 4001

Start Date: 8/29/2016

Required Date: 9/6/2016

Start Qty: 1.00

Required Qty: 1.00

646.3511 Manufactured No
646 3511
 Strut

100 Each 17.0000

1 1

**

OCT 04 2016

DAS 27
 6 9-89

DAS 28
 9-89

Location

Loc Qty

Loc Code

cck104

8

141499

8

CCK108A

9

141499

9

646.3610 Manufactured No
646 3610
 Filler

100 Each 7.0000

1 1

**

OCT 04 2016

DAS 27
 6 9-89

DAS 28
 9-89

Location

Loc Qty

Loc Code

cck104

7

141103

7

646.3710 Manufactured No
646 3710
 Doubler

100 Each 17.0000

1 1

**

OCT 04 2016

DAS 27
 6 9-89

DAS 28
 9-89

Location

Loc Qty

Loc Code

CCK002

17

140753

17

646.3711 Manufactured No
646 3711
 Clip

100 Each 10.0000

1 1

**

OCT 04 2016

DAS 27
 6 9-89

DAS 28
 9-89

Location

Loc Qty

Loc Code

cck105

10

142632

10

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Shop Packet Print

Page 4

DQA: _____ Date: _____



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Picklist Print

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Page 5

Work Order ID: 150672

150672

Parent Item: 646.4001

646 4001

Parent Item Name: AS350 Cable Cutter System

Start Date: 8/29/2016

Required Date: 9/6/2016

Start Qty: 1.00

Required Qty: 1.00

646.3712

Manufactured No

100

Each

12.0000

1

1

646 3712

Clip

**

DAS
6 2
9-89 9-

OCT 04 2016

DAS
28
9-89

Location

Loc Qty

Loc Code

cck105

12

140787

12

646.3713

Manufactured No

100

Each

16.0000

1

1

646 3713

Gusset

**

DAS
6 2
9-89 9-8

OCT 04 2016

DAS
28
9-89

Location

Loc Qty

Loc Code

cck105

16

140084

16

646.3714

Manufactured No

100

Each

3.0000

1

1

646 3714

Gusset

**

DAS
6 DAS
9-89 27
9-89

OCT 04 2016

DAS
28
9-89

Location

Loc Qty

Loc Code

cck105

3

140048

3

646.3715

Manufactured No

100

Each

26.0000

2

2

646 3715

Strut Doubler

**

DAS
27
9-89

OCT 04 2016

DAS
28
9-89

Location

Loc Qty

Loc Code

cck105

26

142630

11

148568

15

DQA: _____ Date: _____



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Picklist Print

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Page 7

Work Order ID: 150672

150672

Parent Item: 646.4001

646 4001

Parent Item Name: AS350 Cable Cutter System

Start Date: 8/29/2016

Required Date: 9/6/2016

Start Qty: 1.00

Required Qty: 1.00

646.3810 Manufactured No

100 Each 14.0000 2 2

646 3810

Bracket

**

OCT 04 2016 DAS 6 27 9-89

DAS
28
9-89

Location Loc Qty Loc Code

cck105

14

141555

9

148559

5

646.3811 Manufactured No

100 Each 14.0000 1 1

646 3811

Radius Block

**

OCT 04 2016 DAS 6 27 9-89

DAS
28
9-89

Location Loc Qty Loc Code

CCK106

14

140895

4

148258

10

646.3812 Manufactured No

100 Each 5.0000 2 2

646 3812

Gusset Bracket

**

OCT 04 2016 DAS 6 27 9-89

DAS
28
9-89

Location Loc Qty Loc Code

CCK106

5

140978

5

646.3813 Manufactured No

100 Each 9.0000 1 1

646 3813

Strut Bracket

**

OCT 04 2016 DAS 6 27 9-89

DAS
28
9-89

Location Loc Qty Loc Code

CCK106

9

141019

4

148269

5

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Shop Packet Print

Page 7

DQA: _____ Date: _____



WORK ORDER NON-CONFORMANCE / UPDATE

QA Closed: _____ Date: _____

Work Order update only ☐

Work Order: _____ Part No. _____ NCR No. _____	DISPOSITION Rework ☐ Scrap ☐ Use-as-is ☐ Suspected Unapproved ☐	AGAINST DEPARTMENT/PROCESS <table style="width:100%; border: none;"> <tr> <td style="border: none;">Skid-tube ☐</td> <td style="border: none;">Cross tube ☐</td> <td style="border: none;">Water Jet ☐</td> <td style="border: none;">Engineering ☐</td> </tr> <tr> <td style="border: none;">Machining ☐</td> <td style="border: none;">Small Fab ☐</td> <td style="border: none;">Prod. Eng. Coord. ☐</td> <td style="border: none;">Quality ☐</td> </tr> <tr> <td style="border: none;">Thermoforming ☐</td> <td style="border: none;">Finishing ☐</td> <td style="border: none;">Rec/Store/Packaging ☐</td> <td style="border: none;">Other ☐</td> </tr> <tr> <td style="border: none;">Large Fab ☐</td> <td style="border: none;">Composite ☐</td> <td style="border: none;">Supplier ☐</td> <td></td> </tr> </table>					Skid-tube ☐	Cross tube ☐	Water Jet ☐	Engineering ☐	Machining ☐	Small Fab ☐	Prod. Eng. Coord. ☐	Quality ☐	Thermoforming ☐	Finishing ☐	Rec/Store/Packaging ☐	Other ☐	Large Fab ☐	Composite ☐	Supplier ☐																																																
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OTHER :																																																																					

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Page 8

Work Order ID: 150672

150672

Parent Item: 646.4001

646 4001

Parent Item Name: AS350 Cable Cutter System

Start Date: 8/29/2016

Required Date: 9/6/2016

Start Qty: 1.00

Required Qty: 1.00

646.3910
646 3910
Shim

DAS
28
9-89

Manufactured No

100 Each

19.0000

4 4

**

1 48261

DAS
6
27
9-89

OCT 0 4 2016

Location

Loc Qty

Loc Code

CCK106

19

140772

19

646.3911
646 3911
Shim

DAS
28
9-89

Manufactured No

100 Each

36.0000

1 1

**

DAS
6
27
9-89

OCT 0 4 2016

Location

Loc Qty

Loc Code

cck104

16

126229

16

CCK106

20

126059

20

646.3912
646 3912
Shim

DAS
28
9-89

Manufactured No

100 Each

26.0000

4 4

**

DAS
6
27
9-89

OCT 0 4 2016

Location

Loc Qty

Loc Code

CCK106

26

140238

26

646.3913
646 3913
Shim

DAS
28
9-89

Manufactured No

100 Each

76.0000

1 1

**

DAS
6
27
9-89

OCT 0 4 2016

Location

Loc Qty

Loc Code

CCK106

76

126060

76

DQA: _____ Date: _____



WORK ORDER NON-CONFORMANCE / UPDATE

QA Closed: _____ Date: _____

Work Order update only ☐

Work Order: _____ Part No. _____ NCR No. _____	DISPOSITION Rework ☐ Scrap ☐ Use-as-is ☐ Suspected Unapproved ☐	AGAINST DEPARTMENT/PROCESS Skid-tube ☐ Machining ☐ Thermoforming ☐ Large Fab ☐ Cross tube ☐ Small Fab ☐ Finishing ☐ Composite ☐ Water Jet ☐ Prod. Eng. Coord. ☐ Rec/Store/Packaging ☐ Supplier ☐ Engineering ☐ Quality ☐ Other ☐			
Date :	Step #:	QTY Effective :		MRB (QSI042) Approval	
Description Work Order Deviation		Disposition			
				Completed By	
				Lead hand / Supervisor Approval Verification	
				QC / QA Coordinator Approval	
Root Cause Environment ☐ Design ☐ Doc/Data ☐ Equip/Tooling ☐ Handling/Pre ☐ Material ☐ Internal Transport ☐ Tribal Knowledge ☐ LOA ☐ Substation ☐ Past Expiry Date ☐ Misidentified ☐ No Re-verification ☐ Operator ☐ Offset/Setup ☐ Supplier ☐ Training ☐ Use for Testing ☐ Poor Information ☐ Rushing ☐ Product Improvement ☐ Process Improvement ☐ Manufacturing Process ☐ Past Due ☐		FAULT CATEGORY Pressure/Forced ☐ Bending ☐ Centre Not Concentric ☐ Cracks ☐ Crimp/Kink/Ripple/Wave ☐ Cuffs ☐ Crushing ☐ Heat Treat ☐ Wave/Twist in Tube ☐ Marks/Chatter ☐ Temperature/Cure ☐ Set-up ☐ BOM/Route ☐ Broken/Damage/Defect ☐ Inspection Incomplete/Unqualified ☐ Contamination ☐ Countersink ☐ Cut Too Short ☐ Instructions Incomplete/Unclear ☐ Drill Holes ☐ Power Loss/Surge ☐ Folio/Program ☐ Grain ☐ Weld ☐ Wrong Stock Pulled ☐ Out of Sequence ☐ Off-set ☐ Mislabeled ☐ Fit/Function ☐ Misaligned/off center ☐ Positioned Wrong ☐ Outside Dimensions ☐ Over/Under tolerance ☐ Part Incorrect ☐ Part Lost/Missing ☐ Part Moved ☐ Drawing ☐ Finish ☐ Misread ☐ Turning Sequence ☐			
OTHER : ☐					

Picklist Print

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Page 9

Work Order ID: 150672

150672

Parent Item: 646.4001

646 4001

Parent Item Name: AS350 Cable Cutter System

Start Date: 8/29/2016

Required Date: 9/6/2016

Start Qty: 1.00

Required Qty: 1.00

646.9410
646 9410
Shim

Manufactured No

100 Each

85.0000

1 1

**

DAS 6 DAS 27
8-89 9-89
OCT 04 2016

Location

Loc Qty

Loc Code

cck011

85

140671

85

647.0112
647 0112
Strut Bracket

Manufactured No

100 Each

28.0000

2 2

**

1513 OCT 11 2016

Location

Loc Qty

Loc Code

CCK107

28

142661

28

647.7703
647 7703
Strut Assembly

Manufactured No

100 Each

16.0000

2 2

**

DAS 6 DAS 27
8-89 9-89
OCT 04 2016

Location

Loc Qty

Loc Code

CCK114

16

144435

4

145013

12

650.9201
650 9201
Eyelet Bracket Assembly

Manufactured No

100 Each

8.0000

2 2

**

148562 OCT 04 2016 DAS 6 DAS 27
8-89 9-89

Location

Loc Qty

Loc Code

cck127

8

141582

8

DQA: _____ Date: _____



WORK ORDER NON-CONFORMANCE / UPDATE

QA Closed: _____ Date: _____

Work Order update only ☐

Work Order: _____ Part No. _____ NCR No. _____	DISPOSITION Rework ☐ Scrap ☐ Use-as-is ☐ Suspected Unapproved ☐	AGAINST DEPARTMENT/PROCESS <table style="width:100%; border: none;"> <tr> <td style="border: none;">Skid-tube ☐</td> <td style="border: none;">Cross tube ☐</td> <td style="border: none;">Water Jet ☐</td> <td style="border: none;">Engineering ☐</td> </tr> <tr> <td style="border: none;">Machining ☐</td> <td style="border: none;">Small Fab ☐</td> <td style="border: none;">Prod. Eng. Coord. ☐</td> <td style="border: none;">Quality ☐</td> </tr> <tr> <td style="border: none;">Thermoforming ☐</td> <td style="border: none;">Finishing ☐</td> <td style="border: none;">Rec/Store/Packaging ☐</td> <td style="border: none;">Other ☐</td> </tr> <tr> <td style="border: none;">Large Fab ☐</td> <td style="border: none;">Composite ☐</td> <td style="border: none;">Supplier ☐</td> <td></td> </tr> </table>				Skid-tube ☐	Cross tube ☐	Water Jet ☐	Engineering ☐	Machining ☐	Small Fab ☐	Prod. Eng. Coord. ☐	Quality ☐	Thermoforming ☐	Finishing ☐	Rec/Store/Packaging ☐	Other ☐	Large Fab ☐	Composite ☐	Supplier ☐																																																
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Picklist Print

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Page 10

Work Order ID: 150672

150672

Parent Item: 646.4001

646 4001

Parent Item Name: AS350 Cable Cutter System

Start Date: 8/29/2016

Required Date: 9/6/2016

Start Qty: 1.00

Required Qty: 1.00

AN3-11A Purchased No 100 Each 179.0000 10 10

AN3-11A

Bolt

**

OCT 04 2016

DAS 27
6 9-89

DAS 28
9-89

Location Loc Qty Loc Code

over003 100

m135390 100

ST349 79

m134852 79

AN3-12A Purchased No 100 Each 32.0000 2 2

AN3-12A

Bolt

**

OCT 04 2016

DAS 27
6 9-89

DAS 28
9-89

Location Loc Qty Loc Code

ST349 32

m133064 16

m134257 16

AN3-13A Purchased No 100 Each 53.0000 1 1

AN3-13A

Bolt

**

OCT 04 2016

DAS 27
6 9-89

DAS 28
9-89

Location Loc Qty Loc Code

GA 20

m127070 20

ST349 33

m134365 33

AN316C4R Purchased No 100 Each 23.0000 2 2

AN316C4R

Nut, Jam

**

OCT 04 2016

DAS 27
6 9-89

DAS 28
9-89

Location Loc Qty Loc Code

ST331 23

m133234 21

m133523 2

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Shop Packet Print

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DQA: _____ Date: _____



WORK ORDER NON-CONFORMANCE / UPDATE

QA Closed: _____ Date: _____

Work Order update only ☐

Work Order: _____ Part No. _____ NCR No. _____	DISPOSITION Rework ☐ Scrap ☐ Use-as-is ☐ Suspected Unapproved ☐	AGAINST DEPARTMENT/PROCESS Skid-tube ☐ Machining ☐ Thermoforming ☐ Large Fab ☐ Cross tube ☐ Small Fab ☐ Finishing ☐ Composite ☐ Water Jet ☐ Prod. Eng. Coord. ☐ Rec/Store/Packaging ☐ Supplier ☐ Engineering ☐ Quality ☐ Other ☐			
Date :	Step #:	QTY Effective :		MRB (QSI042) Approval	
Description Work Order Deviation		Disposition			
				Completed By	
				Lead hand / Supervisor Approval Verification	
				QC / QA Coordinator Approval	
Root Cause Environment ☐ Design ☐ Doc/Data ☐ Equip/Tooling ☐ Handling/Pre ☐ Material ☐ Internal Transport ☐ Tribal Knowledge ☐ LOA ☐ Substation ☐ Past Expiry Date ☐ Misidentified ☐ No Re-verification ☐ Operator ☐ Offset/Setup ☐ Supplier ☐ Training ☐ Use for Testing ☐ Poor Information ☐ Rushing ☐ Product Improvement ☐ Process Improvement ☐ Manufacturing Process ☐ Past Due ☐		FAULT CATEGORY Pressure/Forced ☐ Bending ☐ Centre Not Concentric ☐ Cracks ☐ Crimp/Kink/Ripple/Wave ☐ Cuffs ☐ Crushing ☐ Heat Treat ☐ Wave/Twist in Tube ☐ Marks/Chatter ☐ Temperature/Cure ☐ Set-up ☐ BOM/Route ☐ Broken/Damage/Defect ☐ Inspection Incomplete/Unqualified ☐ Contamination ☐ Countersink ☐ Cut Too Short ☐ Instructions Incomplete/Unclear ☐ Drill Holes ☐ Power Loss/Surge ☐ Folio/Program ☐ Grain ☐ Weld ☐ Wrong Stock Pulled ☐ Out of Sequence ☐ Off-set ☐ Mislabeled ☐ Fit/Function ☐ Misaligned/off center ☐ Positioned Wrong ☐ Outside Dimensions ☐ Over/Under tolerance ☐ Part Incorrect ☐ Part Lost/Missing ☐ Part Moved ☐ Drawing ☐ Finish ☐ Misread ☐ Turning Sequence ☐			
OTHER : ☐					

Picklist Print

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Page 11

Work Order ID: 150672

150672

Parent Item: 646.4001

646 4001

Parent Item Name: AS350 Cable Cutter System

Start Date: 8/29/2016

Required Date: 9/6/2016

Start Qty: 1.00

Required Qty: 1.00

AN3-3A Purchased No

100 Each 196.0000 4 4

AN3-3A

Bolt

**

OCT 04 2016

DAS 6 27 9-89

DAS 28 9-89

Location

Loc Qty

Loc Code

ST350

196

m134738

24

m135274

22

m135408

50

m135466

100

AN3-4A Purchased No

100 Each 189.0000 10 10

AN3-4A

Bolt

**

OCT 04 2016

DAS 6 27 9-89

DAS 28 9-89

Location

Loc Qty

Loc Code

ST350

189

m134955

189

AN3-5A Purchased No

100 Each 353.0000 2 2

AN3-5A

Bolt

**

OCT 04 2016

DAS 6 27 9-89

DAS 28 9-89

Location

Loc Qty

Loc Code

FP001

157

m133686

2

m134502

155

ST350

196

m135058

196

AN3-6A Purchased No

100 Each 207.0000 2 2

AN3-6A

Bolt

**

OCT 04 2016

DAS 6 27 9-89

DAS 28 9-89

Location

Loc Qty

Loc Code

ST349

207

M134955

207

Monday, August 29, 2016 2:58:28 PM

Shop Packet Print

Page 11

DQA: _____ Date: _____



WORK ORDER NON-CONFORMANCE / UPDATE

QA Closed: _____ Date: _____

Work Order update only ☐

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OTHER : _____																																																																																																																										

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Page 12

Work Order ID: 150672

150672

Parent Item: 646.4001

646 4001

Parent Item Name: AS350 Cable Cutter System

Start Date: 8/29/2016

Required Date: 9/6/2016

Start Qty: 1.00

Required Qty: 1.00

AN44-5A Purchased No
AN44-5A
Eyebolt

100 Each 23.0000 2 2
**

DAS 27
6-27
9-89
OCT 04 2016

DAS
28
9-89

Location	Loc Qty	Loc Code
ST339	23	
m133990	2	
m134134	1	
m135127	20	

AN4C7A Purchased No
AN4C7A
BOLT

100 Each 54.0000 2 2
**

DAS 27
6-27
9-89
OCT 04 2016

DAS
28
9-89

Location	Loc Qty	Loc Code
OVER002	50	
m135470	50	
ST345	4	
m134861	4	

AN665-34R Purchased No
AN665-34R
Clevis

100 Each 7.0000 2 2
**

DAS 27
6-27
9-89
OCT 04 2016

DAS
28
9-89

Location	Loc Qty	Loc Code
ST330	7	
M135087	7	

CCR264SS3-02 Purchased No
CCR264SS3-02
Cherry Rivet

100 Each 227.0000 36 36
**

DAS 27
6-27
9-89
OCT 04 2016

DAS
28
9-89

Location	Loc Qty	Loc Code
ST321	227	
M134134	2	
M135127	225	

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DQA: _____ Date: _____



WORK ORDER NON-CONFORMANCE / UPDATE

QA Closed: _____ Date: _____

Work Order update only ☐

Work Order: _____ Part No. _____ NCR No. _____	DISPOSITION Rework ☐ Scrap ☐ Use-as-is ☐ Suspected Unapproved ☐	AGAINST DEPARTMENT/PROCESS Skid-tube ☐ Machining ☐ Thermoforming ☐ Large Fab ☐ Cross tube ☐ Small Fab ☐ Finishing ☐ Composite ☐ Water Jet ☐ Prod. Eng. Coord. ☐ Rec/Store/Packaging ☐ Supplier ☐ Engineering ☐ Quality ☐ Other ☐			
Date :	Step #:	QTY Effective :		MRB (QSI042) Approval	
Description Work Order Deviation		Disposition			
				Completed By	
				Lead hand / Supervisor Approval Verification	
				QC / QA Coordinator Approval	
Root Cause		FAULT CATEGORY			
Environment ☐	No Re-verification ☐	Pressure/Forced ☐	Temperature/Cure ☐	Power Loss/Surge ☐	Positioned Wrong ☐
Design ☐	Operator ☐	Bending ☐	Set-up ☐	Folio/Program ☐	Outside Dimensions ☐
Doc/Data ☐	Offset/Setup ☐	Centre Not Concentric ☐	BOM/Route ☐	Grain ☐	Over/Under tolerance ☐
Equip/Tooling ☐	Supplier ☐	Cracks ☐	Broken/Damage/Defect ☐	Weld ☐	Part Incorrect ☐
Handling/Pre ☐	Training ☐	Crimp/Kink/Ripple/Wave ☐	Inspection Incomplete/Unqualified ☐	Wrong Stock Pulled ☐	Part Lost/Missing ☐
Material ☐	Use for Testing ☐	Cuffs ☐	Contamination ☐	Out of Sequence ☐	Part Moved ☐
Internal Transport ☐	Poor Information ☐	Crushing ☐	Countersink ☐	Off-set ☐	Drawing ☐
Tribal Knowledge ☐	Rushing ☐	Heat Treat ☐	Cut Too Short ☐	Mislabeled ☐	Finish ☐
LOA ☐	Product Improvement ☐	Wave/Twist in Tube ☐	Instructions Incomplete/Unclear ☐	Fit/Function ☐	Misread ☐
Substation ☐	Process Improvement ☐	Marks/Chatter ☐	Drill Holes ☐	Misaligned/off center ☐	Turning Sequence ☐
Past Expiry Date ☐	Manufacturing Process ☐	OTHER : _____			
Misidentified ☐	Past Due ☐				

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Page 13

Work Order ID: 150672

150672

Parent Item: 646.4001

646 4001

Parent Item Name: AS350 Cable Cutter System

Start Date: 8/29/2016

Required Date: 9/6/2016

Start Qty: 1.00

Required Qty: 1.00

CR3213-5-3 Purchased No
CR3213-5-3
Cherry Rivet

134.0000 14 14

**

OCT 04 2016

DAS 6 27
9-89 9-89

DAS 28
9-89

Location Loc Qty Loc Code

CCK003 100

m135408 100

ST319 34

m134142 34

MS20426AD5-7 Purchased No
MS20426AD5-7
RIVET

911.0000 2 2

**

OCT 04 2016

DAS 6 27
9-89 9-89

DAS 28
9-89

Location Loc Qty Loc Code

ST311 911

M133922 911

MS20470AD5-5.5 Purchased No
MS20470AD5-5 5
Rivet

894.0000 8 8

**

OCT 04 2016

DAS 6 27
9-89 9-89

DAS 28
9-89

Location Loc Qty Loc Code

ST309 894

m134063 894

MS20470AD5-6 Purchased No
MS20470AD5-6
RIVET

784.0000 8 8

**

OCT 04 2016

DAS 6 27
9-89 9-89

DAS 28
9-89

Location Loc Qty Loc Code

ST309 784

124089 784

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Page 13

DQA: _____ Date: _____



WORK ORDER NON-CONFORMANCE / UPDATE

QA Closed: _____ Date: _____

Work Order update only ☐

Work Order: _____ Part No. _____ NCR No. _____	DISPOSITION Rework ☐ Scrap ☐ Use-as-is ☐ Suspected Unapproved ☐	AGAINST DEPARTMENT/PROCESS Skid-tube ☐ Machining ☐ Thermoforming ☐ Large Fab ☐ Cross tube ☐ Small Fab ☐ Finishing ☐ Composite ☐ Water Jet ☐ Prod. Eng. Coord. ☐ Rec/Store/Packaging ☐ Supplier ☐ Engineering ☐ Quality ☐ Other ☐			
Date : _____	Step #: _____	QTY Effective : _____		MRB (QSI042) Approval	
Description Work Order Deviation		Disposition			
				Completed By	
				Lead hand / Supervisor Approval Verification	
				QC / QA Coordinator Approval	
Root Cause Environment ☐ Design ☐ Doc/Data ☐ Equip/Tooling ☐ Handling/Pre ☐ Material ☐ Internal Transport ☐ Tribal Knowledge ☐ LOA ☐ Substation ☐ Past Expiry Date ☐ Misidentified ☐ No Re-verification ☐ Operator ☐ Offset/Setup ☐ Supplier ☐ Training ☐ Use for Testing ☐ Poor Information ☐ Rushing ☐ Product Improvement ☐ Process Improvement ☐ Manufacturing Process ☐ Past Due ☐		FAULT CATEGORY Pressure/Forced ☐ Bending ☐ Centre Not Concentric ☐ Cracks ☐ Crimp/Kink/Ripple/Wave ☐ Cuffs ☐ Crushing ☐ Heat Treat ☐ Wave/Twist in Tube ☐ Marks/Chatter ☐ Temperature/Cure ☐ Set-up ☐ BOM/Route ☐ Broken/Damage/Defect ☐ Inspection Incomplete/Unqualified ☐ Contamination ☐ Countersink ☐ Cut Too Short ☐ Instructions Incomplete/Unclear ☐ Drill Holes ☐ Power Loss/Surge ☐ Folio/Program ☐ Grain ☐ Weld ☐ Wrong Stock Pulled ☐ Out of Sequence ☐ Off-set ☐ Mislabeled ☐ Fit/Function ☐ Misaligned/off center ☐ Positioned Wrong ☐ Outside Dimensions ☐ Over/Under tolerance ☐ Part Incorrect ☐ Part Lost/Missing ☐ Part Moved ☐ Drawing ☐ Finish ☐ Misread ☐ Turning Sequence ☐			
OTHER : ☐ _____					

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Page 14

Work Order ID: 150672

150672

Parent Item: 646.4001

646 4001

Parent Item Name: AS350 Cable Cutter System

Start Date: 8/29/2016

Required Date: 9/6/2016

Start Qty: 1.00

Required Qty: 1.00

MS20470AD5-7

Purchased

No

100

Each

440.0000

3 3

MS20470AD5-7

Rivet

DAS
28
9-89

Location

Loc Qty

Loc Code

ST309

440

123425

440

**

OCT 04 2016

DAS
6
9-89
DAS
27
9-89

MS21042-08

MS21042L08

Purchased

No

100

Each

33.0000

2 2

MS21042-08

USE MS21042L08

DAS
28
9-89

Location

Loc Qty

Loc Code

ST304

25

122815

25

ST306

8

m130388

8

**

OCT 04 2016

DAS
6
9-89
DAS
27
9-89

MS21042-3

MS21042L3

Purchased

No

100

Each

0.0000

2 2

MS21042-3

Nut

DAS
28
9-89

Location

Loc Qty

Loc Code

FP001

14

m133790

14

GA

323

m134360

112

m135135

211

ST303

1172

m135135

572

m135407

600

**

OCT 04 2016

DAS
6
9-89
DAS
27
9-89

MS21042L3

Purchased

No

100

Each

1,509.000

61 61

MS21042L3

Nut

DAS
28
9-89

OCT 04 2016

DAS
6
9-89
DAS
27
9-89

DQA: _____ Date: _____



WORK ORDER NON-CONFORMANCE / UPDATE

QA Closed: _____ Date: _____

Work Order update only ☐

Work Order: _____ Part No. _____ NCR No. _____		DISPOSITION Rework ☐ Scrap ☐ Use-as-is ☐ Suspected Unapproved ☐		AGAINST DEPARTMENT/PROCESS <table style="width:100%; border: none;"> <tr> <td style="border: none;">Skid-tube ☐</td> <td style="border: none;">Cross tube ☐</td> <td style="border: none;">Water Jet ☐</td> <td style="border: none;">Engineering ☐</td> </tr> <tr> <td style="border: none;">Machining ☐</td> <td style="border: none;">Small Fab ☐</td> <td style="border: none;">Prod. Eng. Coord. ☐</td> <td style="border: none;">Quality ☐</td> </tr> <tr> <td style="border: none;">Thermoforming ☐</td> <td style="border: none;">Finishing ☐</td> <td style="border: none;">Rec/Store/Packaging ☐</td> <td style="border: none;">Other ☐</td> </tr> <tr> <td style="border: none;">Large Fab ☐</td> <td style="border: none;">Composite ☐</td> <td style="border: none;">Supplier ☐</td> <td></td> </tr> </table>						Skid-tube ☐	Cross tube ☐	Water Jet ☐	Engineering ☐	Machining ☐	Small Fab ☐	Prod. Eng. Coord. ☐	Quality ☐	Thermoforming ☐	Finishing ☐	Rec/Store/Packaging ☐	Other ☐	Large Fab ☐	Composite ☐	Supplier ☐	
Skid-tube ☐	Cross tube ☐	Water Jet ☐	Engineering ☐																						
Machining ☐	Small Fab ☐	Prod. Eng. Coord. ☐	Quality ☐																						
Thermoforming ☐	Finishing ☐	Rec/Store/Packaging ☐	Other ☐																						
Large Fab ☐	Composite ☐	Supplier ☐																							
Date : _____		Step #: _____		QTY Effective : _____			MRB (QSI042) Approval																		
Description Work Order Deviation				Disposition			Completed By																		
							Lead hand / Supervisor Approval Verification																		
							QC / QA Coordinator Approval																		
Root Cause		FAULT CATEGORY																							
Environment ☐ Design ☐ Doc/Data ☐ Equip/Tooling ☐ Handling/Pre ☐ Material ☐ Internal Transport ☐ Tribal Knowledge ☐ LOA ☐ Substation ☐ Past Expiry Date ☐ Misidentified ☐	No Re-verification ☐ Operator ☐ Offset/Setup ☐ Supplier ☐ Training ☐ Use for Testing ☐ Poor Information ☐ Rushing ☐ Product Improvement ☐ Process Improvement ☐ Manufacturing Process ☐ Past Due ☐	Pressure/Forced ☐ Bending ☐ Centre Not Concentric ☐ Cracks ☐ Crimp/Kink/Ripple/Wave ☐ Cuffs ☐ Crushing ☐ Heat Treat ☐ Wave/Twist in Tube ☐ Marks/Chatter ☐	Temperature/Cure ☐ Set-up ☐ BOM/Route ☐ Broken/Damage/Defect ☐ Inspection Incomplete/Unqualified ☐ Contamination ☐ Countersink ☐ Cut Too Short ☐ Instructions Incomplete/Unclear ☐ Drill Holes ☐	Power Loss/Surge ☐ Folio/Program ☐ Grain ☐ Weld ☐ Wrong Stock Pulled ☐ Out of Sequence ☐ Off-set ☐ Mislabeled ☐ Fit/Function ☐ Misaligned/off center ☐	Positioned Wrong ☐ Outside Dimensions ☐ Over/Under tolerance ☐ Part Incorrect ☐ Part Lost/Missing ☐ Part Moved ☐ Drawing ☐ Finish ☐ Misread ☐ Turning Sequence ☐	OTHER : _____																			

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Work Order ID: 150672

150672

Parent Item: 646.4001

646 4001

Parent Item Name: AS350 Cable Cutter System

Start Date: 8/29/2016

Required Date: 9/6/2016

Start Qty: 1.00

Required Qty: 1.00

MS21042L4

Purchased

No

100

Each

2,081.000

2

2

MS21042L4

Nut

DAS
28
9-89

Location

Loc Qty

Loc Code

FP001

51

m133363

51

GA

424

m133769

116

m135058

308

ST3003

25

m134955

25

ST303

1581

m133769

12

m134055

24

m135297

545

m135470

1000

OCT 04 2016
DAS 27
9-89

MS21047-3

Purchased

No

100

Each

153.0000

18

18

MS21047-3

Nut Plate

DAS
28
9-89

Location

Loc Qty

Loc Code

ST301

153

m134955

53

m135297

100

OCT 04 2016
DAS 27
9-89

MS24693-C278

Purchased

No

100

Each

80.0000

5

5

MS24693-C278

Screw

DAS
28
9-89

Location

Loc Qty

Loc Code

ST278

80

m135135

80

OCT 04 2016
DAS 27
9-89

Monday, August 29, 2016 2:58:28 PM

Shop Packet Print

Page 15

DQA: _____ Date: _____



WORK ORDER NON-CONFORMANCE / UPDATE

QA Closed: _____ Date: _____

Work Order update only ☐

Work Order: _____ Part No. _____ NCR No. _____	DISPOSITION Rework ☐ Scrap ☐ Use-as-is ☐ Suspected Unapproved ☐	AGAINST DEPARTMENT/PROCESS Skid-tube ☐ Machining ☐ Thermoforming ☐ Large Fab ☐ Cross tube ☐ Small Fab ☐ Finishing ☐ Composite ☐ Water Jet ☐ Prod. Eng. Coord. ☐ Rec/Store/Packaging ☐ Supplier ☐ Engineering ☐ Quality ☐ Other ☐			
Date :	Step #:	QTY Effective :		MRB (QSI042) Approval	
Description Work Order Deviation			Disposition		
			Completed By		
			Lead hand / Supervisor Approval Verification		
			QC / QA Coordinator Approval		
Root Cause Environment ☐ Design ☐ Doc/Data ☐ Equip/Tooling ☐ Handling/Pre ☐ Material ☐ Internal Transport ☐ Tribal Knowledge ☐ LOA ☐ Substation ☐ Past Expiry Date ☐ Misidentified ☐ No Re-verification ☐ Operator ☐ Offset/Setup ☐ Supplier ☐ Training ☐ Use for Testing ☐ Poor Information ☐ Rushing ☐ Product Improvement ☐ Process Improvement ☐ Manufacturing Process ☐ Past Due ☐			FAULT CATEGORY Pressure/Forced ☐ Bending ☐ Centre Not Concentric ☐ Cracks ☐ Crimp/Kink/Ripple/Wave ☐ Cuffs ☐ Crushing ☐ Heat Treat ☐ Wave/Twist in Tube ☐ Marks/Chatter ☐ Temperature/Cure ☐ Set-up ☐ BOM/Route ☐ Broken/Damage/Defect ☐ Inspection Incomplete/Unqualified ☐ Contamination ☐ Countersink ☐ Cut Too Short ☐ Instructions Incomplete/Unclear ☐ Drill Holes ☐ Power Loss/Surge ☐ Folio/Program ☐ Grain ☐ Weld ☐ Wrong Stock Pulled ☐ Out of Sequence ☐ Off-set ☐ Mislabeled ☐ Fit/Function ☐ Misaligned/off center ☐ Positioned Wrong ☐ Outside Dimensions ☐ Over/Under tolerance ☐ Part Incorrect ☐ Part Lost/Missing ☐ Part Moved ☐ Drawing ☐ Finish ☐ Misread ☐ Turning Sequence ☐		
OTHER :					

Picklist Print

Monday, August 29, 2016 2:58:28 PM

Page 16

Work Order ID: 150672

150672

Parent Item: 646.4001

646 4001

Parent Item Name: AS350 Cable Cutter System

Start Date: 8/29/2016

Required Date: 9/6/2016

Start Qty: 1.00

Required Qty: 1.00

MS24694-S51

Purchased

No

100

Each

264.0000

5

5

MS24694-S51

Screw

OCT 04 2016

DAS
27
6 9-89
9-89

Location

Loc Qty

Loc Code

ST284

264

m135442

264

MS24694-S54

Purchased

No

100

Each

90.0000

2

2

MS24694-S54

SCREW

OCT 04 2016

DAS
27
6 9-89
9-89

Location

Loc Qty

Loc Code

over006

50

m134851

50

ST284

40

m135274

40

MS24694-S55

Purchased

No

100

Each

204.0000

3

3

MS24694-S55

Screw

OCT 04 2016

DAS
27
6 9-89
9-89

Location

Loc Qty

Loc Code

ST283

204

m134376

104

m135408

100

MS27039-08-13

Purchased

No

100

Each

142.0000

2

2

MS27039-08-13

Screw

OCT 04 2016

DAS
27
6 9-89
9-89

Location

Loc Qty

Loc Code

ST278

142

124326

142

DAS
28
9-89

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Page 16

DQA: _____ Date: _____



WORK ORDER NON-CONFORMANCE / UPDATE

QA Closed: _____ Date: _____

Work Order update only ☐

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Skid-tube ☐	Cross tube ☐	Water Jet ☐	Engineering ☐																						
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								Lead hand / Supervisor Approval Verification																	
								QC / QA Coordinator Approval																	
Root Cause				FAULT CATEGORY																					
Environment ☐		No Re-verification ☐		Pressure/Forced ☐	Temperature/Cure ☐	Power Loss/Surge ☐	Positioned Wrong ☐																		
Design ☐		Operator ☐		Bending ☐	Set-up ☐	Folio/Program ☐	Outside Dimensions ☐																		
Doc/Data ☐		Offset/Setup ☐		Centre Not Concentric ☐	BOM/Route ☐	Grain ☐	Over/Under tolerance ☐																		
Equip/Tooling ☐		Supplier ☐		Cracks ☐	Broken/Damage/Defect ☐	Weld ☐	Part Incorrect ☐																		
Handling/Pre ☐		Training ☐		Crimp/Kink/Ripple/Wave ☐	Inspection Incomplete/Unqualified ☐	Wrong Stock Pulled ☐	Part Lost/Missing ☐																		
Material ☐		Use for Testing ☐		Cuffs ☐	Contamination ☐	Out of Sequence ☐	Part Moved ☐																		
Internal Transport ☐		Poor Information ☐		Crushing ☐	Countersink ☐	Off-set ☐	Drawing ☐																		
Tribal Knowledge ☐		Rushing ☐		Heat Treat ☐	Cut Too Short ☐	Mislabeled ☐	Finish ☐																		
LOA ☐		Product Improvement ☐		Wave/Twist in Tube ☐	Instructions Incomplete/Unclear ☐	Fit/Function ☐	Misread ☐																		
Substation ☐		Process Improvement ☐		Marks/Chatter ☐	Drill Holes ☐	Misaligned/off center ☐	Turning Sequence ☐																		
Past Expiry Date ☐		Manufacturing Process ☐		OTHER :																					
Misidentified ☐		Past Due ☐																							

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Work Order ID: 150672

150672

Parent Item: 646.4001

646 4001

Parent Item Name: AS350 Cable Cutter System

Start Date: 8/29/2016

Required Date: 9/6/2016

Start Qty: 1.00

Required Qty: 1.00

MS27039-1-10

Purchased

No

100

Each

18.0000

2

2

MS27039-1-10

SCREW

**

135603

DAS
6
27
9-89

OCT 04 2016

DAS
28
9-89

Location

Loc Qty

Loc Code

GA

14

m129541

14

ST280

4

m134676

4

MS27039-1-12

Purchased

No

100

Each

53.0000

6

6

MS27039-1-12

Screw

**

135560

DAS
6
27
9-89

OCT 04 2016

DAS
28
9-89

Location

Loc Qty

Loc Code

ST280

53

m133988

3

m134294

50

MS27039-1-16

Purchased

No

100

Each

160.0000

24

24

MS27039-1-16

Screw

**

OCT 04 2016

DAS
6
27
9-89

DAS
28
9-89

Location

Loc Qty

Loc Code

ST280

160

m134502

160

MS27039-1-19

Purchased

No

100

Each

153.0000

22

22

MS27039-1-19

Screw

**

135714

OCT 04 2016

DAS
6
27
9-89

DAS
28
9-89

Location

Loc Qty

Loc Code

GA

82

m134134

82

ST280

71

m135058

71

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Page 17

DQA: _____ Date: _____



WORK ORDER NON-CONFORMANCE / UPDATE

QA Closed: _____ Date: _____

Work Order update only ☐

Work Order: _____ Part No. _____ NCR No. _____		DISPOSITION Rework ☐ Scrap ☐ Use-as-is ☐ Suspected Unapproved ☐		AGAINST DEPARTMENT/PROCESS <table style="width:100%; border: none;"> <tr> <td style="border: none;">Skid-tube ☐</td> <td style="border: none;">Cross tube ☐</td> <td style="border: none;">Water Jet ☐</td> <td style="border: none;">Engineering ☐</td> </tr> <tr> <td style="border: none;">Machining ☐</td> <td style="border: none;">Small Fab ☐</td> <td style="border: none;">Prod. Eng. Coord. ☐</td> <td style="border: none;">Quality ☐</td> </tr> <tr> <td style="border: none;">Thermoforming ☐</td> <td style="border: none;">Finishing ☐</td> <td style="border: none;">Rec/Store/Packaging ☐</td> <td style="border: none;">Other ☐</td> </tr> <tr> <td style="border: none;">Large Fab ☐</td> <td style="border: none;">Composite ☐</td> <td style="border: none;">Supplier ☐</td> <td></td> </tr> </table>						Skid-tube ☐	Cross tube ☐	Water Jet ☐	Engineering ☐	Machining ☐	Small Fab ☐	Prod. Eng. Coord. ☐	Quality ☐	Thermoforming ☐	Finishing ☐	Rec/Store/Packaging ☐	Other ☐	Large Fab ☐	Composite ☐	Supplier ☐	
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Picklist Print

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Page 18

Work Order ID: 150672

150672

Parent Item: 646.4001

646 4001

Parent Item Name: AS350 Cable Cutter System

Start Date: 8/29/2016

Required Date: 9/6/2016

Start Qty: 1.00

Required Qty: 1.00

MS27039-1-20

Purchased

No

100

Each

105.0000

2

2

MS27039-1-20

Screw

DAS
28
9-89

Location

Loc Qty

Loc Code

ST280

105

124326

105

265.0000

4

4

MS27039-1-21

Purchased

No

100

Each

265.0000

4

4

MS27039-1-21

Screw

DAS
28
9-89

Location

Loc Qty

Loc Code

ST280

265

m127904

265

1,365.000

144

144

NAS1149F0332P

Purchased

No

100

Each

1,365.000

144

144

NAS1149F0332P

Washer

DAS
28
9-89

Location

Loc Qty

Loc Code

GA

282

m133709

282

ST262

1083

m135058

1083

246.0000

2

2

NAS1149F0363P

Purchased

No

100

Each

246.0000

2

2

NAS1149F0363P

WASHER

DAS
28
9-89

Location

Loc Qty

Loc Code

ST262

246

124555

246

2

2

2

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Shop Packet Print

Page 18

DQA: _____ Date: _____



WORK ORDER NON-CONFORMANCE / UPDATE

QA Closed: _____ Date: _____

Work Order update only ☐

Work Order: _____ Part No. _____ NCR No. _____	DISPOSITION Rework ☐ Scrap ☐ Use-as-is ☐ Suspected Unapproved ☐	AGAINST DEPARTMENT/PROCESS <table style="width:100%; border: none;"> <tr> <td style="border: none;">Skid-tube ☐</td> <td style="border: none;">Cross tube ☐</td> <td style="border: none;">Water Jet ☐</td> <td style="border: none;">Engineering ☐</td> </tr> <tr> <td style="border: none;">Machining ☐</td> <td style="border: none;">Small Fab ☐</td> <td style="border: none;">Prod. Eng. Coor. ☐</td> <td style="border: none;">Quality ☐</td> </tr> <tr> <td style="border: none;">Thermoforming ☐</td> <td style="border: none;">Finishing ☐</td> <td style="border: none;">Rec/Store/Packaging ☐</td> <td style="border: none;">Other ☐</td> </tr> <tr> <td style="border: none;">Large Fab ☐</td> <td style="border: none;">Composite ☐</td> <td style="border: none;">Supplier ☐</td> <td></td> </tr> </table>				Skid-tube ☐	Cross tube ☐	Water Jet ☐	Engineering ☐	Machining ☐	Small Fab ☐	Prod. Eng. Coor. ☐	Quality ☐	Thermoforming ☐	Finishing ☐	Rec/Store/Packaging ☐	Other ☐	Large Fab ☐	Composite ☐	Supplier ☐	
Skid-tube ☐	Cross tube ☐	Water Jet ☐	Engineering ☐																		
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OTHER :																					

Picklist Print

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Page 19

Work Order ID: 150672

150672

Parent Item: 646.4001

646 4001

Parent Item Name: AS350 Cable Cutter System

Start Date: 8/29/2016

Required Date: 9/6/2016

Start Qty: 1.00

Required Qty: 1.00

NAS1149F0432P

Purchased

No

100

Each

847.0000

4

4

NAS1149F0432P

WASHER

**

OCT 04 2016 DAS 27 9-89

DAS 28 9-89

NAS1149FN832P

Purchased

No

100

Each

1,732.000

4

4

NAS1149FN832P

Washer

**

135603

OCT 04 2016 DAS 27 9-89

DAS 28 9-89

Location

ST262

M134955

Loc Qty

847

847

Loc Code

Location

GA

M133316

M133769

M135058

ST263

M134257

Loc Qty

1553

16

89

1448

179

179

DQA: _____ Date: _____



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Date :		Step #:		QTY Effective :			MRB (QSI042) Approval																		
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Root Cause		FAULT CATEGORY																							
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APICAL INDUSTRIES, INC.
dba DART AEROSPACE

ENGINEERING CHANGE NOTICE NO.

05304

SHEET 1 OF 1

DWG NO. 646.4000

REV: C

PREPARED BY J. BECKER

DATE: 02/04/16

EFFECT ON DWG
☐ INC. ☒ UNINC.

DWG TITLE: AS350 CABLE CUTTERS KIT

APPROVED BY: ENGR. *[Signature]*

MFG *[Signature]*

QC *[Signature]*

EFF. NEXT ORDER

TRANSACTION CODES (TC):
A-ADD C-CREATE
R-REVISE D-DELETE

REASON: REVISED F/N 12.

ECR: N/A

ACTION ITEM:
1. N/A

SHOP COPY
RETURN TO
ENGINEERING
UNCONTROLLED COPY
SUBJECT TO AMENDMENT

WITHOUT NOTICE
WORK ORDER
NO. 150672 MJS
/6-08-30

SHEET 1, BOM IS:

12	R	601.1624	8	16	LOCKNUT	MS21042L3	
F/N/TC	PART NUMBER	4006	4005	QTY	DESCRIPTION	MATERIAL	SPECIFICATION
DOCUMENTS EFFECTED:					CHANGE CATEGORY	DER REVIEW REQUIRED	
☐ PATTERN ☐ MDL ☐ INSTALL INSTRUCTIONS ☐ ICA ☐ FMS ☒ BOM					☐ MAJOR ☒ MINOR	☐ YES ☒ NO	

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1. AFTER INSTALLATION, APPLY F/N 54 A/R TO FILL GAPS AND FILET EDGES.

2. INSTALL F/N 14 WITH F/N 52 & 53.

3. 3M VHB ADHESIVE TAPE .025" THICK X .50" WIDE
VENDOR: MCMASTER-CARR P/N 7593A651.

4. 3M TAPE PRIMER 94, APPLY TO BOTH SURFACES A/R BEFORE TAPE.
VENDOR: R. S. HUGHES P/N 021200-24216.

5. REUSE FASTENERS FROM F/N 1.

6. USE WASHERS A/R AS SHIMS TO OBTAIN BEST FITMENT.

7. AT CUSTOMERS OPTION, INSTALL F/N 65 BY MATCH DRILLING ON TO F/N 1.

8. INSTALL SHIM IF OEM PROVISIONS ARE INSTALLED ON AIRCRAFT. REMOVE SHIM LAYERS TO ACHIEVE CORRECT SIZE. MATCH DRILL HOLES. USE F/N 78 SCREW IN PLACE OF F/N 17 SCREW.

9. NEWER INSTALLATIONS ON AIRCRAFT WITH UPDATED CANOPY MAY REQUIRE DIFFERENT LENGTH SCREWS. USE F/N 62 TO REPLACE F/N 44 & F/N 26 IN PLACE OF F/N 41 WHEN NECESSARY.

4006	4005	4004	4003	4002	4001	4000	3999	3998	3997	3996	3995	3994	3993	3992	3991	3990	3989	3988	3987	3986	3985	3984	3983	3982	3981	3980	3979	3978	3977	3976	3975	3974	3973	3972	3971	3970	3969	3968	3967	3966	3965	3964	3963	3962	3961	3960	3959	3958	3957	3956	3955	3954	3953	3952	3951	3950	3949	3948	3947	3946	3945	3944	3943	3942	3941	3940	3939	3938	3937	3936	3935	3934	3933	3932	3931	3930	3929	3928	3927	3926	3925	3924	3923	3922	3921	3920	3919	3918	3917	3916	3915	3914	3913	3912	3911	3910	3909	3908	3907	3906	3905	3904	3903	3902	3901	3900	3899	3898	3897	3896	3895	3894	3893	3892	3891	3890	3889	3888	3887	3886	3885	3884	3883	3882	3881	3880	3879	3878	3877	3876	3875	3874	3873	3872	3871	3870	3869	3868	3867	3866	3865	3864	3863	3862	3861	3860	3859	3858	3857	3856	3855	3854	3853	3852	3851	3850	3849	3848	3847	3846	3845	3844	3843	3842	3841	3840	3839	3838	3837	3836	3835	3834	3833	3832	3831	3830	3829	3828	3827	3826	3825	3824	3823	3822	3821	3820	3819	3818	3817	3816	3815	3814	3813	3812	3811	3810	3809	3808	3807	3806	3805	3804	3803	3802	3801	3800	3799	3798	3797	3796	3795	3794	3793	3792	3791	3790	3789	3788	3787	3786	3785	3784	3783	3782	3781	3780	3779	3778	3777	3776	3775	3774	3773	3772	3771	3770	3769	3768	3767	3766	3765	3764	3763	3762	3761	3760	3759	3758	3757	3756	3755	3754	3753	3752	3751	3750	3749	3748	3747	3746	3745	3744	3743	3742	3741	3740	3739	3738	3737	3736	3735	3734	3733	3732	3731	3730	3729	3728	3727	3726	3725	3724	3723	3722	3721	3720	3719	3718	3717	3716	3715	3714	3713	3712	3711	3710	3709	3708	3707	3706	3705	3704	3703	3702	3701	3700	3699	3698	3697	3696	3695	3694	3693	3692	3691	3690	3689	3688	3687	3686	3685	3684	3683	3682	3681	3680	3679	3678	3677	3676	3675	3674	3673	3672	3671	3670	3669	3668	3667	3666	3665	3664	3663	3662	3661	3660	3659	3658	3657	3656	3655	3654	3653	3652	3651	3650	3649	3648	3647	3646	3645	3644	3643	3642	3641	3640	3639	3638	3637	3636	3635	3634	3633	3632	3631	3630	3629	3628	3627	3626	3625	3624	3623	3622	3621	3620	3619	3618	3617	3616	3615	3614	3613	3612	3611	3610	3609	3608	3607	3606	3605	3604	3603	3602	3601	3600	3599	3598	3597	3596	3595	3594	3593	3592	3591	3590	3589	3588	3587	3586	3585	3584	3583	3582	3581	3580	3579	3578	3577	3576	3575	3574	3573	3572	3571	3570	3569	3568	3567	3566	3565	3564	3563	3562	3561	3560	3559	3558	3557	3556	3555	3554	3553	3552	3551	3550	3549	3548	3547	3546	3545	3544	3543	3542	3541	3540	3539	3538	3537	3536	3535	3534	3533	3532	3531	3530	3529	3528	3527	3526	3525	3524	3523	3522	3521	3520	3519	3518	3517	3516	3515	3514	3513	3512	3511	3510	3509	3508	3507	3506	3505	3504	3503	3502	3501	3500	3499	3498	3497	3496	3495	3494	3493	3492	3491	3490	3489	3488	3487	3486	3485	3484	3483	3482	3481	3480	3479	3478	3477	3476	3475	3474	3473	3472	3471	3470	3469	3468	3467	3466	3465	3464	3463	3462	3461	3460	3459	3458	3457	3456	3455	3454	3453	3452	3451	3450	3449	3448	3447	3446	3445	3444	3443	3442	3441	3440	3439	3438	3437	3436	3435	3434	3433	3432	3431	3430	3429	3428	3427	3426	3425	3424	3423	3422	3421	3420	3419	3418	3417	3416	3415	3414	3413	3412	3411	3410	3409	3408	3407	3406	3405	3404	3403	3402	3401	3400	3399	3398	3397	3396	3395	3394	3393	3392	3391	3390	3389	3388	3387	3386	3385	3384	3383	3382	3381	3380	3379	3378	3377	3376	3375	3374	3373	3372	3371	3370	3369	3368	3367	3366	3365	3364	3363	3362	3361	3360	3359	3358	3357	3356	3355	3354	3353	3352	3351	3350	3349	3348	3347	3346	3345	3344	3343	3342	3341	3340	3339	3338	3337	3336	3335	3334	3333	3332	3331	3330	3329	3328	3327	3326	3325	3324	3323	3322	3321	3320	3319	3318	3317	3316	3315	3314	3313	3312	3311	3310	3309	3308	3307	3306	3305	3304	3303	3302	3301	3300	3299	3298	3297	3296	3295	3294	3293	3292	3291	3290	3289	3288	3287	3286	3285	3284	3283	3282	3281	3280	3279	3278	3277	3276	3275	3274	3273	3272	3271	3270	3269	3268	3267	3266	3265	3264	3263	3262	3261	3260	3259	3258	3257	3256	3255	3254	3253	3252	3251	3250	3249	3248	3247	3246	3245	3244	3243	3242	3241	3240	3239	3238	3237	3236	3235	3234	3233	3232	3231	3230	3229	3228	3227	3226	3225	3224	3223	3222	3221	3220	3219	3218	3217	3216	3215	3214	3213	3212	3211	3210	3209	3208	3207	3206	3205	3204	3203	3202	3201	3200	3199	3198	3197	3196	3195	3194	3193	3192	3191	3190	3189	3188	3187	3186	3185	3184	3183	3182	3181	3180	3179	3178	3177	3176	3175	3174	3173	3172	3171	3170	3169	3168	3167	3166	3165	3164	3163	3162	3161	3160	3159	3158	3157	3156	3155	3154	3153	3152	3151	3150	3149	3148	3147	3146	3145	3144	3143	3142	3141	3140	3139	3138	3137	3136	3135	3134	3133	3132	3131	3130	3129	3128	3127	3126	3125	3124	3123	3122	3121	3120	3119	3118	3117	3116	3115	3114	3113	3112	3111	3110	3109	3108	3107	3106	3105	3104	3103	3102	3101	3100	3099	3098	3097	3096	3095	3094	3093	3092	3091	3090	3089	3088	3087	3086	3085	3084	3083	3082	3081	3080	3079	3078	3077	3076	3075	3074	3073	3072	3071	3070	3069	3068	3067	3066	3065	3064	3063	3062	3061	3060	3059	3058	3057	3056	3055	3054	3053	3052	3051	3050	3049	3048	3047	3046	3045	3044	3043	3042	3041	3040	3039	3038	3037	3036	3035	3034	3033	3032	3031	3030	3029	3028	3027	3026	3025	3024	3023	3022	3021	3020	3019	3018	3017	3016	3015	3014	3013	3012	3011	3010	3009	3008	3007	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1 2 3 4 5 6 7 8

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A

DETAIL A

DETAIL C

646.4002

646.4001

DETAIL B

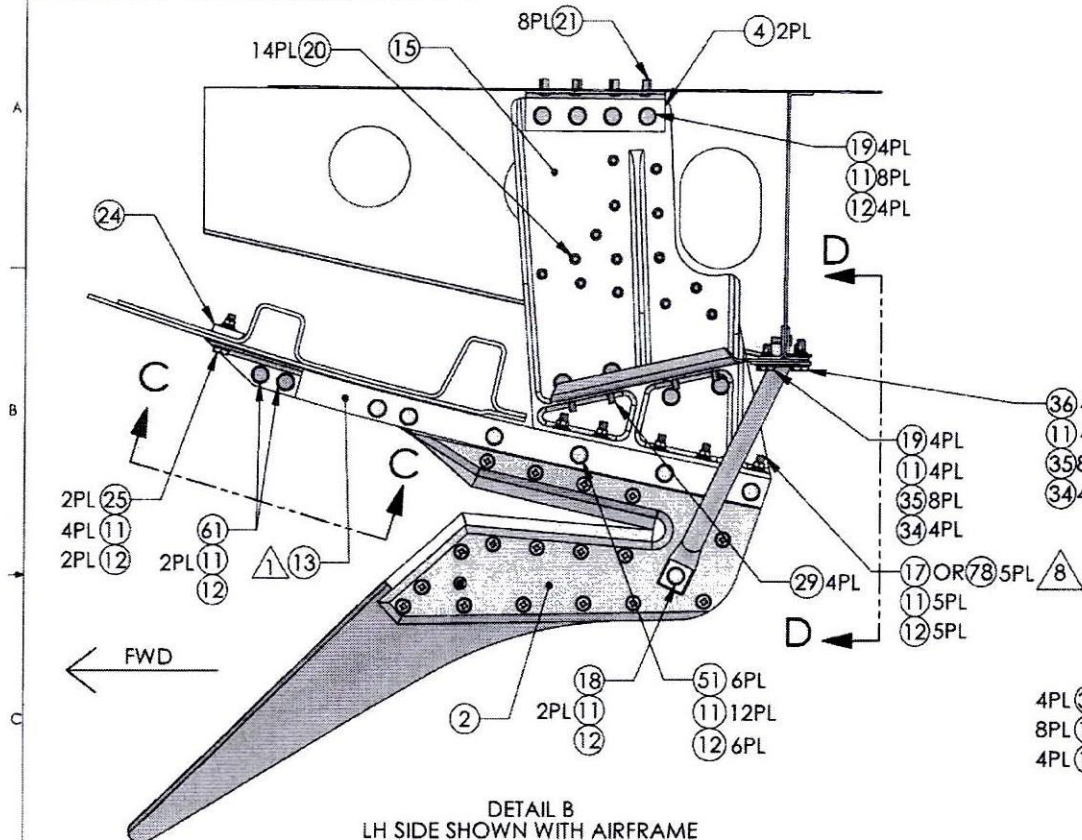
B

C

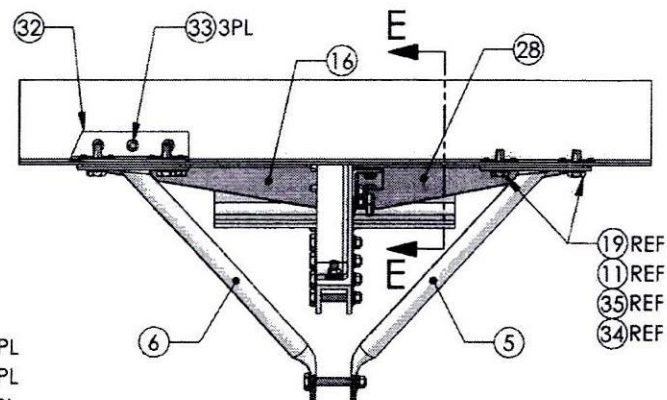
D

ORIGINAL DATE 2/20/2018		3030 ENTERPRISE CT., SUITE A VISTA, CA. 92081 (760)-724-5300	
DRAWN BY S. HOFF		CHECKED BY P. BRAVO	
DRAWING APPROVAL P. BRAVO		APICAL INDUSTRIES INC. DBA DART AEROSPACE	
CONTRACT NO.			
UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES TOLERANCES ARE: 3 PLACE DECIMALS ±0.015 2 PLACE DECIMALS ±0.005 ANGLES ±1°			
SIZE 8	CAGE CODE 07M26	QWG. NO. 646.4000	REV C
SCALE NONE			SHEET 2 OF 5

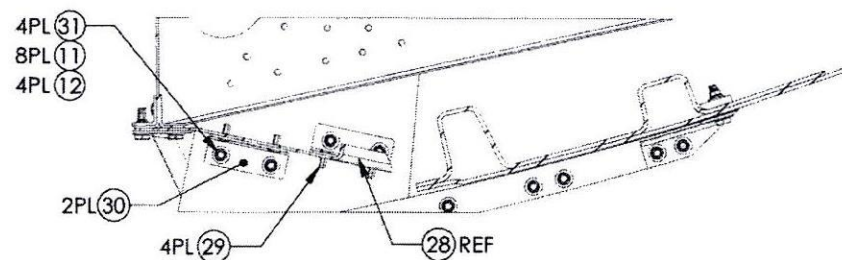
THE INFORMATION CONTAINED IN THIS DRAWING IS THE SOLE PROPERTY OF APICAL INDUSTRIES
 DBA DART AEROSPACE. ANY REPRODUCTION IN PART OR WHOLE WITHOUT THE EXPLICIT
 WRITTEN PERMISSION OF APICAL INDUSTRIES DBA DART AEROSPACE IS PROHIBITED.



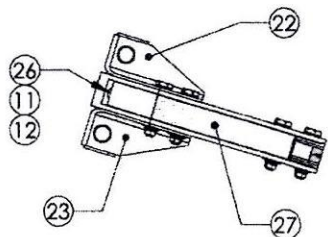
DETAIL B
 LH SIDE SHOWN WITH AIRFRAME



SECTION D-D
 CUTTER HIDDEN FOR CLARITY



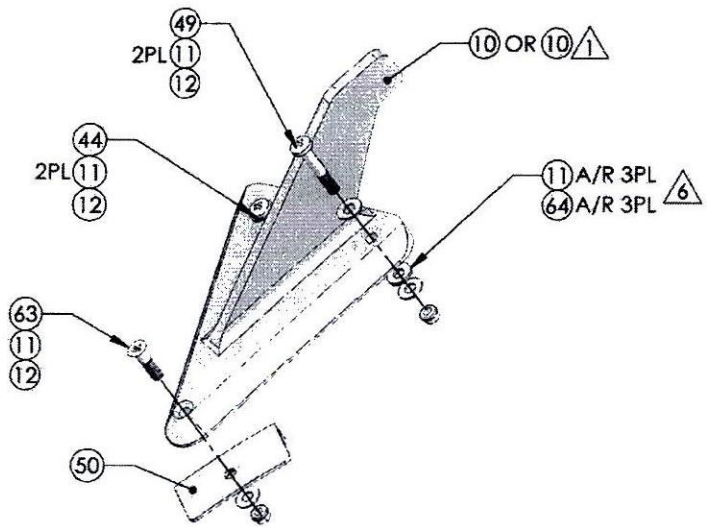
SECTION E-E



SECTION C-C

ORIGINAL DATE 03-21-08		3030 ENTERPRISE CT., SUITE A VISTA, CA 92081 (760) 724-5300	
DRAWN BY S. HUBB	CHECKED BY P. BRAY	DART AEROSPACE APICAL INDUSTRIES, INC. DBA DART AEROSPACE	
DRAWING APPROVAL P. BRAY 08-20-08		AS350 CABLE CUTTERS KIT	
CONTRACT NO.		SHEET 8	REV C
UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES DIMENSIONS ARE 2 PLACE DECIMALS 0.0-0.9 3 PLACE DECIMALS 1.0-1.9 ANGLES 1/2°		CAGE CODE 07M36	QTY 646.4000
SCALE NONE		SHEET 4 OF 5	

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DETAIL C
 LH SHOWN EXPLODED
 RH OPPOSITE

ORIGINAL DATE 08-27-08		3030 ENTERPRISE CT. SUITE A VISTA, CA. 92081 (760)-724-5300	
DRAWN BY S. HUR		D. BRAVO	
DRAWING APPROVAL D. BRAVO		APICAL INDUSTRIES INC. DBA DART AEROSPACE	
CONTRACT NO.			
AS350 CABLE CUTTERS KIT			
NET	U.S. CASH CREDIT	QTY. NO.	REV
8	07M26	646.4000	C
SCALE NONE			SHEET 5 OF 5

[illegible]



APICAL INDUSTRIES, INC.
dba DART AEROSPACE

ENGINEERING CHANGE NOTICE NO.

05304

SHEET 1 OF 1

DWG NO. 646.4000

REV: C

PREPARED BY J. BECKER

DATE: 02/04/16

EFFECT ON DWG
☐ INC. ☒ UNINC.

DWG TITLE: AS350 CABLE CUTTERS KIT

APPROVED BY: ENGR

MFG

QC

EFF. NEXT ORDER

TRANSACTION CODES (TC):
A-ADD C-CREATE
R-REVISE D-DELETE

REASON: REVISED F/N 12.

ECR:
N/A

ACTION ITEM:
1. N/A

REFERENCE ONLY

SHEET 1, BOM IS:

12	R	601.1624	8	16	LOCKNUT	MS21042L3	
F/N	TC	PART NUMBER	4006	4005	DESCRIPTION	MATERIAL	SPECIFICATION
			QTY				
DOCUMENTS EFFECTED:					CHANGE CATEGORY	DER REVIEW REQUIRED	
☐ PATTERN ☐ MDL ☐ INSTALL INSTRUCTIONS ☐ ICA ☐ FMS ☒ BOM					☐ MAJOR ☒ MINOR	☐ YES ☒ NO	